

Polynomials & Factoring

monomial - a number or variable or the product of a number and one or more variables

EX: 2 $3x^2$ $-5t$

binomial: a polynomial with exactly 2 terms

EX: $4x + 3$ $3x^2 + 2x$

$$(x + 2)(2x + 1)$$

FOIL

First	Outer	Inner	Last
$x(2x)$	$x(1)$	$2(2x)$	$2(1)$

$$2x^2 + x + 4x + 2$$

$$2x^2 + 5x + 2$$

$$(x+2)(x+1)$$

$$x^2 + 2x + x + 2$$

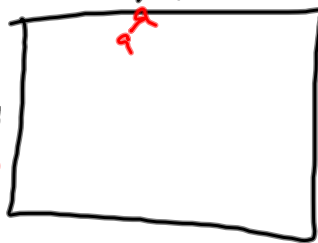
$$x^2 + 3x + 2$$

	$x + 2$	
x +	x^2	$2x$
	x	2

The perimeter $x+2=11$
of a \square

is 42

$x+1$
10



$$P = 2l + 2w$$

$$2(x+2) + 2(x+1) = 42$$

$$2x+4+2x+2=42$$

$$4x+6=42$$

$$4x=36$$

$$x=9$$

$$x^2 + 4x + 3 \Rightarrow (x+1)(x+3)$$

3	4
1, 3	✓

4	4
1, 4	2, 2
2, 2	✓

$$x^2 + 4x + 4$$

$$(x+2)(x+2)$$

Pg. 511